#### Listing of Claims

- 1. (Currently amended) An isolated nucleic acid specific to *Histoplasma capsulatum* Mantigen comprising:
- a nucleic acid having a nucleotide sequence as set forth in the Sequence Listing as SEQ ID NO:1;
- a nucleic acid having a nucleotide sequence which is complementary to the nucleotide sequence set forth in the Sequence Listing as SEQ ID NO:1;
- a nucleic acid which is substantially the same as a nucleic acid having a nucleotide sequence as set forth in the Sequence Listing as SEQ ID NO:1;
- a nucleic acid which is substantially the same as a nucleic acid having a nucleotide sequence which is complementary to the nucleotide sequence set forth in the Sequence Listing as SEQ ID NO:1;
- a fragment of a nucleic acid having a nucleotide sequence as set forth in the Sequence Listing as SEQ ID NO:1;
- a fragment of a nucleic acid having a nucleotide sequence which is complementary to the nucleotide sequence set forth in the Sequence Listing as SEQ ID NO:1;
- a fragment of nucleic acid which is substantially the same as a nucleic acid having a nucleotide sequence as set forth in the Sequence Listing as SEQ ID NO:1; or
- a fragment of a nucleic acid having a nucleotide sequence which is substantially the same as a nucleic acid which is complementary to the nucleotide sequence set forth in the Sequence Listing as SEQ ID NO:1;

wherein the nucleic acid does not contain the nucleotide sequences
5'CGAAGTCGAGGCTTTCAGCATG3' (SEQ ID NO:14),
5'TATTAGCTCTAGAATTACCACGGGTATCCAAGTAGTAAGG3' (SEQ ID NO:15),
5'CCCCGAAGGGCATTGGTTTTTATCTAATAAATACACCCC3' (SEQ ID NO:16), or
nucleotide sequences complementary thereto,

and wherein the nucleic acid is not a nucleic acid consisting essentially of between 10 and 100 nucleotides which is able to form a hybrid at 60°C with a nucleotide polymer having a nucleotide sequence of 5'CGAAGTCGAGGCTTTCAGCATG3' (SEQ ID NO:17), 5'CATGCTGAAAGCCTCGACTTCG3' (SEQ ID NO:18), 5'CAUGCUGAAAGCCUCGACUUCG3' (SEQ ID NO:19) or 5'CGAAGUCGAGGCUUUCAGCAUG3' (SEQ ID NO:20).

- 2. (Original) The nucleic acid of Claim 1, wherein the nucleic acid has the nucleotide sequence set forth in the Sequence Listing as SEQ ID NO:1.
- 3. (Original) The nucleic acid of Claim 1, wherein the nucleic acid has a nucleotide sequence which is complementary to the nucleotide sequence set forth in the Sequence Listing as SEQ ID NO:1.
- 4. (Original) The nucleic acid of Claim 1. wherein the nucleic acid has a nucleotide sequence which is substantially the same as a nucleic acid having a nucleotide sequence as set forth in the Sequence Listing as SEQ ID NO:1.
- 5. (Original) The nucleic acid of Claim 1, wherein the nucleic acid has a nucleotide sequence which is substantially the same as a nucleic acid having a nucleotide sequence which is complementary to the nucleotide sequence set forth in the Sequence Listing as SEQ ID NO:1.
- 6. (Original) The nucleic acid of Claim 1, wherein the nucleic acid is a fragment of a nucleic acid having a nucleotide sequence as set forth in the Sequence Listing as SEQ ID NO:1.
- 7. (Original) The nucleic acid of Claim 1, wherein the nucleic acid is a fragment of a nucleic acid having a nucleotide sequence which is complementary to the nucleotide sequence set forth in the Sequence Listing as SEQ ID NO:1.
- 8. (Original) The nucleic acid of Claim 1, wherein the nucleic acid is a fragment of a nucleic acid having a nucleotide sequence which is substantially the same as a nucleic acid having a nucleotide sequence as set forth in the Sequence Listing as SEQ ID NO:1.

- 9. (Original) The nucleic acid of Claim 1, wherein the nucleic acid is a fragment of a nucleic acid which is substantially the same as a nucleic acid having a nucleotide sequence which is complementary to the nucleotide sequence set forth in the Sequence Listing as SEO ID NO:1.
- 10. (Withdrawn) An isolated or recombinantly-produced antigen specific to Histoplasma capsulatum comprising:
- a polypeptide encoded by a nucleic acid having a nucleotide sequence which is complementary to the nucleotide sequence set forth in the Sequence Listing as SEQ ID NO:1;
- a fragment of a polypeptide encoded by a nucleic acid having a nucleotide sequence which is complementary to the nucleotide sequence set forth in the Sequence Listing as SEQ ID NO:1;
- a polypeptide encoded by a nucleic acid which is substantially the same as a nucleic acid having a nucleotide sequence which is complementary to the nucleotide sequence set forth in the Sequence Listing as SEQ ID NO:1; or
- a fragment of a polypeptide encoded by a nucleic acid which is substantially the same as a nucleic acid having a nucleotide sequence which is complementary to the nucleotide sequence set forth in the Sequence Listing as SEQ ID NO:1.
- 11. (Withdrawn) The antigen of Claim 10, wherein the antigen is a polypeptide encoded by a nucleic acid having a nucleotide sequence which is complementary to the nucleotide sequence set forth in the Sequence Listing as SEQ ID NO:1.
- 12. (Withdrawn) The antigen of Claim 11, wherein the antigen has an amino acid sequence as set forth in the Sequence Listing as SEO ID NO:2.
- 13. (Withdrawn) The antigen of Claim 10, wherein the antigen is a fragment of a polypeptide encoded by a nucleic acid having a nucleotide sequence which is complementary to the nucleotide sequence set forth in the Sequence Listing as SEQ ID NO:1.
- 14. (Withdrawn) The antigen of Claim 10, wherein the antigen is a polypeptide encoded by a nucleic acid which is substantially the same as a nucleic acid having a nucleotide sequence

which is complementary to the nucleotide sequence set forth in the Sequence Listing as SEQ ID NO:1.

- 15. (Withdrawn) The antigen of Claim10, wherein the aritigen is a fragment of a polypeptide encoded by a nucleic acid which is substantially the same as a nucleic acid having a nucleotide sequence which is complementary to the nucleotide sequence set forth in the Sequence Listing as SEQ ID NO:1.
- 16. (Original) A vector comprising a nucleic acid specific to *Histoplasma capsulatum*, wherein the nucleic acid: has a nucleotide sequence as set forth in the Sequence Listing as SEQ ID NO:1;

has a nucleotide sequence which is substantially the same as a nucleotide sequence as set forth in the Sequence Listing as SEQ ID NO:1;

is a fragment of a nucleic acid having a nucleotide sequence as set forth in the Sequence Listing as SEQ ID NO:1; or

is a fragment of a nucleic acid which is substantially the same as a nucleic acid having a nucleotide sequence as set forth in the Sequence Listing as SEQ ID NO:;

and wherein the vector is suitable for expressing the nucleic acid.

- 17. (Original) The vector of Claim 16, wherein the nucleic cid has a nucleotide sequence as set forth in the Sequence Listing as SEQ ID NO:1.
- 18. (Original) The vector of Claim 16, wherein the nucleic acid has a nucleotide sequence which is substantially the same as a nucleotide sequence as set forth in the Sequence Listing as SEQ ID NO:1.
- 19. (Original) The vector of Claim 16, wherein the nucleic acid is a fragment of a nucleic acid having a nucleotide sequence as set forth in the Sequence Listing as SEQ ID 1.
- 20. (Original) The vector of Claim 16, wherein the nucleic acid is a fragment of a nucleic acid which is substantially the same as a nucleic acid having a nucleotide sequence as set forth in the Sequence Listing as SEQ ID NO:1.

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- 21. (Withdrawn) A method for detecting a previous or current *Histoplasma capsulatum* infection in a subject, comprising:
- (a) contacting a fluid or tissue sample from the subject which contains antibodies with an isolated or recombinantly-produced antigen which is specific to *Histoplasma* capsulatum; and
- (b) detecting the presence of binding between the antibodies and the antigen, the presence of binding indicating the presence of a previous or current *Histoplasma capsulatum* infection in a subject,

wherein the antigen is:

a polypeptide encoded by a nucleic acid having a nucleotide sequence which is complementary to the nucleotide sequence set forth in the Sequence Listing as SEQ ID NO:1;

a fragment of a polypeptide encoded by a nucleic acid having a nucleotide sequence which is complementary to the-nucleotide sequence set forth in the Sequence Listing as SEQ ID NO:1:

a polypeptide encoded by a nucleic acid which is substantially the same as a nucleic acid having a nucleotide sequence which is complementary to the nucleotide sequence set forth in the Sequence Listing as SEQ ID NO:1; or

- a fragment of a polypeptide encoded by a nucleic acid which is substantially the same as a nucleic acid having a nucleotide sequence which is complementary to the nucleotide sequence set forth in the Sequence Listing 30 as SEQ ID NO:1.
- 22. (Withdrawn) The method of Claim 21, wherein the antigen is a polypeptide encoded by a nucleic acid having a nucleotide sequence which is complementary to the nucleotide sequence as set forth in the Sequence Listing as SEQ ID NO:1.
- 23. (Withdrawn) The method of Claim 22, wherein the antigen has an amino acid sequence as set forth in the Sequence Listing as SEQ ID NO:2.

- 24. (Withdrawn) The method of Claim 21, wherein the antigen is a fragment of a polypeptide encoded by a nucleic acid having a nucleotide sequence which is complementary to the nucleotide sequence set forth in the Sequence Listing as SEQ ID NO:1.
- 25. (Withdrawn) The method of Claim 21, wherein the antigen is a polypeptide encoded by a nucleic acid which is substantially the same as a nucleic acid having a nucleotide sequence which is complementary to the nucleotide sequence set forth in the Sequence Listing as SEQ ID NO:1.
- 26. (Withdrawn) The method of Claim 21, wherein the antigen is a fragment of a polypeptide encoded by a nucleic acid which is substantially the same as a nucleic acid having a nucleotide sequence which is complementary to the nucleotide sequence set forth in the Sequence Listing as SEQ ID NO:I.
  - 27. (Withdrawn) An isolated antibody produced against an antigen of Claim 10.
- 28. (Withdrawn) A kit for detecting a previous or current Histoplasma capsulatum infection in a sample comprising:
- (a) an isolated nucleic acid of Claim 1, an isolated or recombinantly-produced antigen of Claim 10 or an isolated antibody of Claim 27; and
- (b) instructions describing the use of the nucleic acid, antigen or antibody in the detection of a previous or current *Histoplasma capsulatum* infection.
- 29. (Withdrawn) The kit of Claim 28, wherein the kit contains an antigen, and the antigen is a polypeptide encoded by a nucleic acid having a nucleotide sequence which is complementary to the nucleotide sequence set forth in the Sequence Listing as SEQ ID NO:1.
- 30. (Withdrawn) The kit of Claim 28, wherein the kit contains an antigen, and the antigen is a polypeptide encoded by a nucleic acid which is substantially the same as a nucleic acid having a nucleotide sequence which is complementary to the nucleotide sequence set forth in the Sequence Listing as SEQ ID NO:1.

set forth in the Sequence Listing as SEQ ID NO:1;

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31. (Original) A host for expressing a polypeptide specific to *Histoplasma capsulatum* comprising a vector containing a nucleic acid, wherein the vector is suitable for expressing the nucleic acid, and wherein the nucleic acid:

has a nucleotide sequence as set forth in the Sequence Listing as SEQ ID NO:1; has a nucleotide sequence which is substantially the same as a nucleotide sequence as

is a fragment of a nucleic acid having a nucleotide sequence as set forth in the Sequence Listing as SEQ ID NO:1; or

is a fragment of a nucleic acid which is substantially the same as a nucleic acid having a nucleotide sequence as set forth in the Sequence Listing as SEQ ID NO:1.

- 32. (Original) The host of claim 31, wherein the nucleic acid Listing as SEQ ID NO:1.
- 33. (Original) The host of Claim 31, wherein the nucleic acid is substantially the same as a nucleic acid having a nucleotide sequence as set forth in the Sequence Listing as SEQ ID NO:1.
- 34. (Withdrawn) A method for detecting a past exposure to the fungus *Histoplasma* capsulatum comprising:
- (a) injecting intradermally in the skin of a patient an effective amount of an isolated or recombinantly-produced antigen which is specific to *Histoplasma capsulatum*; and
- (b) observing the skin at the injection site at a predetermined time after injection for a presence of swelling of the skin, the presence of swelling of the skin indicating a past exposure by the patient to the fungus *Histoplasma capsulatum*, wherein the polypeptide is:

a polypeptide encoded by a nucleic acid having a nucleotide sequence which is complementary to the nucleotide sequence set forth in the Sequence Listing as SEQ ID NO:1;

an antigenic fragment of a polypeptide encoded by a nucleic acid having a nucleotide sequence which is complementary to the nucleotide sequence set forth in the Sequence Listing as SEQ ID NO:1;

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a polypeptide encoded by a nucleic acid which is substantially the same as a nucleic acid having a nucleotide sequence which is complementary to the nucleotide sequence set forth in the Sequence Listing as SEQ ID NO:1; or

an antigenic fragment of a polypeptide encoded by a nucleic acid which is substantially the same as a nucleic acid having a nucleotide sequence which is complementary to the nucleotide sequence set forth in the Sequence Listing as SEQ ID NO:1.

- 35. (Withdrawn) The method of Claim 34, wherein the antigen is a polypeptide encoded by a nucleic acid having a nucleotide sequence which is complementary to the nucleotide sequence as set forth in the Sequence Listing 5 as SEQ ID NO:1.
- 36. (Withdrawn) The method of Claim 34, wherein the antigen is an antigenic fragment of a polypeptide encoded by a nucleic acid having a nucleotide sequence which is complementary to the nucleotide sequence set forth in the Sequence Listing as SEQ ID NO:1.
- 37. (Withdrawn) The method of Claim 34, wherein the antigen is a polypeptide encoded by a nucleic acid which is substantially the same as a nucleic acid having a nucleotide sequence which is complementary to the nucleotide sequence set forth in the Sequence Listing as SEQ ID NO:1
- 38. (Withdrawn) The method of Claim 34, wherein the artigen is a fragment of a polypeptide encoded by a nucleic acid which is substantially the same as a nucleic acid having a nucleotide sequence which is complementary to the nucleotide sequence set forth in the Sequence Listing as SEQ ID NO:1.
  - 39. (Withdrawn) A vaccine for the prevention of histoplasmosis comprising:
- (a) an effective amount of a nucleic acid of claim 1 or an isolated or recombinantly-produced antigen of Claim 10; and
  - (b) a pharmaceutically-acceptable carrier.
- 40. (Withdrawn) A method for detecting a current *H. capsulatum* infection in a subject suspected of having an *H. capsulatum* infection comprising:

- (a) contacting a fluid or tissue sample from the subject which contains antigens with antibodies generated against an antigen which contains an epitope which is unique to H. capsulatum; and
- (b) detecting the presence of binding between the antigens and the antibodies, the presence of binding indicating the presence of a current H. capsulatum infection in the subject, wherein the antigen is:
- a polypeptide encoded by a nucleic acid having a nucleotide sequence which is complementary to the nucleotide sequence set forth in the Sequence Listing as SEQ ID NO:1;
- a fragment of a polypeptide encoded .by a nucleic acid having a nucleotide sequence which is complementary to the nucleotide sequence set forth in the Sequence Listing as SEQ ID NO:1;
- a polypeptide encoded by a nucleic acid which is substantially the same as a nucleic acid having a nucleotide sequence which is complementary to the nucleotide sequence set forth in the Sequence Listing as SEQ ID NO:1; or
- a fragment of a polypeptide encoded by a nucleic acid which is substantially the same as a nucleic acid having a nucleotide sequence, which is complementary to the nucleotide sequence set forth in the Sequence Listing as SEQ ID NO:1.
- 41. (Withdrawn) An isolated *Histoplasma Capsulatum* M antigen comprising a mature polypeptide consisting essentially of the polypeptide of SEQ ID NO:2 starting with the serine residue of amino acid position 17.
- 42. (Withdrawn) The isolated *Histoplasma Capsulatum* M antigen of claim 41, wherein the polypeptide is a recombinant polypeptide.
- 43. (Withdrawn) The isolated *Histoplasma Capsulatum* M antigen of claim 42, wherein the polypeptide is produced in a prokaryotic host.
- 44. (Withdrawn) The isolated *Histoplasma Capsulatum* M antigen of claim 41, wherein the protein does not contain carbohydrate moieties.

- 45. (New) An isolated nucleic acid specific to *Histoplasma capsulatum* comprising:
  a nucleic acid having a nucleotide sequence as set forth in the Sequence Listing as SEQ
  ID NO:1;
- a nucleic acid having a nucleotide sequence which is complementary to the nucleotide sequence set forth in the Sequence Listing as SEQ ID NO:1;
- a nucleic acid which is 90% similar to a nucleic acid having a nucleotide sequence as set forth in the Sequence Listing as SEQ ID NO:1;
- a nucleic acid which is 90% similar to a nucleic acid having a nucleotide sequence which is complementary to the nucleotide sequence set forth in the Sequence Listing as SEQ ID NO:1;
- a fragment of a nucleic acid having a nucleotide sequence as set forth in the Sequence Listing as SEQ ID NO:1;
- a fragment of a nucleic acid having a nucleotide sequence which is complementary to the nucleotide sequence set forth in the Sequence Listing as SEQ ID NO:1;
- a fragment of nucleic acid which is 90% similar to a nucleic acid having a nucleotide sequence as set forth in the Sequence Listing as SEQ ID NO:1; or
- a fragment of a nucleic acid having a nucleotide sequence which is 90% similar to a nucleic acid which is complementary to the nucleotide sequence set forth in the Sequence Listing as SEQ ID NO:1;

wherein the nucleic acid does not contain the nucleotide sequences

5'CGAAGTCGAGGCTTTCAGCATG3' (SEQ ID NO:14),

5'TATTAGCTCTAGAATTACCACGGGTATCCAAGTAGTA AGG3' (SEQ ID NO:15),

5'CCCCGAAGGGCATTGGTTTTTTATCTAATAAATACACCCC3' (SEQ ID NO:16), or nucleotide sequences complementary thereto,

and wherein the nucleic acid is not a nucleic acid consisting essentially of between 10 and 100 nucleotides which is able to form a hybrid at 60°C with a nucleotide polymer having a nucleotide sequence of 5'CGAAGTCGAGGCTTTCAGCATG3' (SEQ ID NO:17), 5'CATGCTGAAAGCCTCGACTTCG3' (SEQ ID NO:18),

5'CAUGCUGAAAGCCUCGACUUCG3' (SEQ ID NO:19) or 5'CGAAGUCGAGGCUUUCAGCAUG3' (SEQ ID NO:20).

46. (New) An isolated nucleic acid specific to *Histoplas ma capsulatum* comprising: a nucleic acid having a nucleotide sequence as set forth in the Sequence Listing as SEQ ID NO:1;

a nucleic acid having a nucleotide sequence which is complementary to the nucleotide sequence set forth in the Sequence Listing as SEQ ID NO:1;

a nucleic acid which is 95% similar to a nucleic acid having a nucleotide sequence as set forth in the Sequence Listing as SEQ ID NO:1;

a nucleic acid which is 95% similar to a nucleic acid having a nucleotide sequence which is complementary to the nucleotide sequence set forth in the Sequence Listing as SEQ ID NO:1;

a fragment of a nucleic acid having a nucleotide sequence as set forth in the Sequence Listing as SEQ ID NO:1;

a fragment of a nucleic acid having a nucleotide sequence which is complementary to the nucleotide sequence set forth in the Sequence Listing as SEQ ID NO:1;

a fragment of nucleic acid which is 95% similar to a nucleic acid having a nucleotide sequence as set forth in the Sequence Listing as SEQ ID NO:1; or

a fragment of a nucleic acid having a nucleotide sequence which is 95% similar to a nucleic acid which is complementary to the nucleotide sequence set forth in the Sequence Listing as SEQ ID NO:1;

wherein the nucleic acid does not contain the nucleotide sequences

5'CGAAGTCGAGGCTTTCAGCATG3' (SEQ ID NO:14),

5'TATTAGCTCTAGAATTACCACGGGTATCCAAGTAGTAAGG3' (SEQ ID NO:15),

5'CCCCGAAGGGCATTGGTTTTTTATCTAATAAATACACCCC3' (SEQ ID NO:16), or
nucleotide sequences complementary thereto.

and wherein the nucleic acid is not a nucleic acid consisting essentially of between 10 and 100 nucleotides which is able to form a hybrid at 60°C with a nucleotide polymer having a

nucleotide sequence of 5'CGAAGTCGAGGCTTTCAGCATG3' (SEQ ID NO:17), 5'CATGCTGAAAGCCTCGACTTCG3' (SEQ ID NO:18), 5'CAUGCUGAAAGCCUCGACUUCG3' (SEQ ID NO:19) or 5'CGAAGUCGAGGCUUUCAGCAUG3' (SEQ ID NO:20).

47. (New) An isolated nucleic acid specific to *Histoplasma capsulatum* comprising: a nucleic acid consisting of a nucleotide sequence as set forth in the Sequence Listing as SEQ ID NO:1;

a nucleic acid consisting of a nucleotide sequence which is complementary to the nucleotide sequence set forth in the Sequence Listing as SEQ ID NO:1;

a nucleic acid which is 90% similar to a nucleic acid consisting of a nucleotide sequence as set forth in the Sequence Listing as SEQ ID NO:1;

a nucleic acid which is 90% similar to a nucleic acid consisting of a nucleotide sequence which is complementary to the nucleotide sequence set forth in the Sequence Listing as SEQ ID NO:1;

- a fragment of a nucleic acid consisting of a nucleotide sequence as set forth in the Sequence Listing as SEQ ID NO:1;
- a fragment of a nucleic acid consisting of a nucleotide sequence which is complementary to the nucleotide sequence set forth in the Sequence Listing as SEQ ID NO:1;
- a fragment of nucleic acid which is 90% similar to a nucleic acid consisting of a nucleotide sequence as set forth in the Sequence Listing as SEQ ID NO:1; or
- a fragment of a nucleic acid consisting of a nucleotide sequence which is 90% similar to a nucleic acid which is complementary to the nucleotide sequence set forth in the Sequence Listing as SEQ ID NO:1;

wherein the nucleic acid does not contain the nucleotide sequences
5'CGAAGTCGAGGCTTTCAGCATG3' (SEQ ID NO:14),
5'TATTAGCTCTAGAATTACCACGGGTATCCAAGTAGTAAGG3' (SEQ ID NO:15),
5'CCCCGAAGGGCATTGGTTTTTTATCTAATAAATACACCCC3' (SEQ ID NO:16), or

nucleotide sequences complementary thereto,

and wherein the nucleic acid is not a nucleic acid consisting essentially of between 10 and 100 nucleotides which is able to form a hybrid at 60°C with a nucleotide polymer consisting of a nucleotide sequence of 5°CGAAGTCGAGGCTTTCAGCATG3 (SEQ ID NO:17),

- 5'CATGCTGAAAGCCTCGACTTCG3' (SEQ ID NO:18),
- 5'CAUGCUGAAAGCCUCGACUUCG3' (SEQ ID NO:19) or
- 5'CGAAGUCGAGGCUUUCAGCAUG3' (SEQ ID NO:20).
- 48. (New) An isolated nucleic acid specific to *Histoplasma capsulatum* comprising: a nucleic acid consisting of a nucleotide sequence as set forth in the Sequence Listing as SEQ ID NO:1;
- a nucleic acid consisting of a nucleotide sequence which is complementary to the nucleotide sequence set forth in the Sequence Listing as SEQ ID NO:1;
- a nucleic acid which is 95% similar to a nucleic acid consisting of a nucleotide sequence as set forth in the Sequence Listing as SEQ ID NO:1;
- a nucleic acid which is 95% similar to a nucleic acid consisting of a nucleotide sequence which is complementary to the nucleotide sequence set forth in the Sequence Listing as SEQ ID NO:1;
- a fragment of a nucleic acid consisting of a nucleotide sequence as set forth in the Sequence Listing as SEQ ID NO:1;
- a fragment of a nucleic acid consisting of a nucleotide sequence which is complementary to the nucleotide sequence set forth in the Sequence Listing as SEQ ID NO:1;
- a fragment of nucleic acid which is 95% similar to a nucleic acid consisting of a nucleotide sequence as set forth in the Sequence Listing as SEQ ID NO:1; or
- a fragment of a nucleic acid consisting of a nucleotide sequence which is 95% similar to a nucleic acid which is complementary to the nucleotide sequence set forth in the Sequence Listing as SEQ ID NO:1;

wherein the nucleic acid does not contain the nucleotide sequences

5'CGAAGTCGAGGCTTTCAGCATG3' (SEQ ID NO:14),

5'TATTAGCTCTAGAATTACCACGGGTATCCAAGTAGTAAGG3' (SEQ ID NO:15),

5'CCCCGAAGGGCATTGGTTTTTTATCTAATAAATACACCCC3' (SEQ ID NO:16), or
nucleotide sequences complementary thereto,

and wherein the nucleic acid is not a nucleic acid consisting essentially of between 10 and 100 nucleotides which is able to form a hybrid at 60°C with a nucleotide polymer consisting of a nucleotide sequence of 5'CGAAGTCGAGGCTTTCAGCATG3' (SEQ ID NO:17), 5'CATGCTGAAAGCCTCGACTTCG3' (SEQ ID NO:18), 5'CAUGCUGAAAGCCUCGACUUCG3' (SEQ ID NO:19) or 5'CGAAGUCGAGGCUUUCAGCAUG3' (SEQ ID NO:20).

49. (New) The nucleic acid of claim 1, wherein the substantially the same nucleic acid is homologous to the nucleic acid having a nucleotide sequence as set forth in the Sequence Listing as SEQ ID NO: 1.